

1 through said chamber, and as insects are metered into said
2 delivery tube they are gravity fed to the chamber to be
3 coated by binder solution entering the chamber through said
4 at least one fluid injector, and then the coated insects are
5 expelled through the outlet end of said chamber.

6 6. Amended. The apparatus of claim 1 wherein the
7 delivery tube comprises a J-shaped tube the outlet of which
8 is disposed elevationally at about the middle of the chamber
9 and which is directed toward the outlet of the chamber.

10 10. Amended. An apparatus for the coating and
11 delivery of beneficial insects which comprises:

12 a. a hopper for the temporary storage of the
13 beneficial insects and which hopper has a constricted
14 opening at the bottom in communication with,

15 b. an insect metering device for controlling the
16 flow of a determinable amount of insects from said hopper,

17 c. a collection bin to receive said insects, in
18 communication with said metering device,

19 d. a delivery tube having an inlet end and [an] a
20 flared outlet end, and

21 e. a tubular chamber having an outlet end and an
22 inlet end for the introduction of air into said chamber, and
23 having at least one fluid injector, disposed within said
24 chamber, for the introduction of a binder solution [from a
25 source thereof]; into an airstream, aft the outlet of said
26 delivery tube but within said chamber,

27 said collection bin in communication with the
28 inlet of the delivery tube; the outlet of the delivery tube
29 being disposed within the chamber and in communication with
30 the interior of said chamber,

31 whereby when air is introduced through the inlet end of
32 the chamber, an airstream is formed that moves through said
33 chamber, and as insects are metered into said delivery tube
34 they are gravity fed to the chamber to be coated by binder
35 solution entering the chamber through said at least one

13 fluid injector, and then the coated insects are expelled
2 ~~through the outlet end of said chamber.~~

3 22. Amended. An apparatus for the aerial delivery of
4 binder coated beneficial insects which comprises:

5 a. a hopper for the temporary storage of the
6 insects and which hopper has a constricted opening at the
7 bottom in communication with,

8 b. an insect metering device for [controlling the
9 flow] periodically dispensing a finite amount of insects
10 from said hopper,

11 c. a collection bin to receive said insects, in
12 communication with said metering device,

13 d. a J-shaped delivery tube having an inlet end
14 and [an] a flared outlet end,

15 e. an optical sensor encircling said delivery
16 tube, connected to a power source, and adapted to monitor
17 the flow through said delivery tube,

18 f. a tubular chamber having an outlet end and a
19 reverse venturi configured inlet end for the introduction of
20 air into said chamber, and having at least a pair of fluid
21 ^{injectors} ~~injectors~~, oppositely disposed within said chamber, for the
22 introduction of a binder solution [from a source thereof],
23 into an airstream at the outlet of said delivery tube but
24 within said chamber,

25 said collection bin in communication with the
26 inlet of the delivery tube; the outlet of the delivery tube
27 being disposed within the chamber and in communication with
28 the interior of said chamber,

29 whereby when air is introduced through the inlet
30 end of the chamber, an airstream is formed that moves
31 through said chamber, and as insects are metered into said
32 delivery tube they are [gravity] fed to the chamber to be
33 coated by binder solution entering the chamber through ~~said~~
34 ^{of said pair of} ~~at least one fluid injector~~ ^{injectors} and then the coated insects are
35 expelled through the outlet end of said chamber.

26. Amended. The process of controlling insect pests on an infested specific crop which comprises: